First/Part/Final

Original/Duplicate/Triplicate AEE/PSD/DZ/SBR/20/2016-17 dt 30/3/17

CONTRACT CERTIFICATE

(For other words)

No……..

Date: ……..

Division :DASARAHALLI DIVISION

Bill received No ..04.....Dated. 27/4/17 Sub division:…….. Book voucher No……..

Dated……..Scheduled Docket No…….... Head of Account……..

Name of work (as per Sanctioned Estimate.) **Development of Dobighat in Ward no.13.**

Name of contractor and full address: **M//s KRIDL.**

Reference to Agreement No. EE/PD/DZ/WO/35/2016-17, Dated: 28/1/17

66619 – 637

Certified that the measurements were taken by me on 28/3/17 and recorded in pages 66619/1

Measurements Book No 667/13-14 And that the work is satisfaction executed.

Contractor

Officer-in-charge of work.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Certified that the measurements were taken by me on 30/03/2017 and found correct. The work is satisfactorily executed Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

If Memorandum of payment

Work Code No. 013-17-000015

Sub-Division Officer

		AMOUNT
1	Total value of work done or Supplies made as per account.	Gross – 962472 –
2	Deduct amount to be held in reserve being ……..percent Rs……	IT – 192490 –
3	Deduct amount to be held in reserve being balance	KST – 384,980 –
4	Deduct payments:	FSD – 481,225 –
	a) Amount of previous payment as in the office cash book voucher No…….....Dated……..……S.D.No……..…… Amount adjusted towards cash advance recovery of	Cess – 96245
	b) Payment cost store or other materials supplied.	CBF – 9625
5	Balance being unpaid value of work done held in reserve	Ry – 96245
6	Deduct cash advance made on the office cash book vehicle No…….. Dated……..less adjustments.	Total…… Ded: 1260,810
7	Net amount due to or from contractor unadjusted items	net 8363662
8	Advance to contractor for materials brought to site (as detailed) Within value of Government materials supplied.	
		Total amount adjusted:

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

Contractor signature.

Received Rs……(In words)……

……

By cash and by adjustment of Payment as per memorandum

(In final settlement of all demand)

Witness:

1.

2.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Date:

Paid by me by cheque No……Dated……

Cash Rs……dated……

Initials of officer making payment dated……

First/Part/Final

Br 2041 27/4/17

P-1806 Development of Dobighat in 13 wards

Audited and admitted for Rs. 9640672

Passed by Cheque for Rs. 9624472

net - 8363662 net: 8377427

Ded :- 1260810 Ded: 1262945

Contractor Signature.

Accounts Superintendent

Executive Engineer

B.B.M.P Dasarahalli Division

For use in the office.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Executive Engineer.

Sl No	Description of Items	U
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods Complete as per specifications.	Cum
2	Refilling available earth around pipe lines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as per specifications allow 60% of rate considered underComplete as per specifications.	Cum
3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892Cum and fine aggregates @ 0.465Cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing Complete as per specifications.	Cum
4	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing Complete as per specifications.	Cum
5	Providing and laying in position plain cement concrete Cum of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 Cum and fine aggregtes @ 0.459Cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and ciils, ncluding cost of all materials, labour, HOM of machinery, curing Complete as per specifications.	Cum
6	Providing and laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, labour, curing, transportation,loading, unloading etc., Complete as per specifications.	Cum
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour Complete as per specifications.	Cum
8	Providing and removing centering, shuttering, strutting,propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour Complete as per specifications.	Sqm
9	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery Complete as per specifications.	Tonne
10	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mix concrete(RMC) for RCC works laid in 15 cms thick layers and well conpacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exlusive of cost of steel and fabrication charges) Ready mix concrete M-20 for raft foundation, coulmn and footing, main ans secondary beams. Complete as per specifications.	Cum
11	Providing and applying enamel metal paint two Sqm 79.00 coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, Complete as per specifications.	Sqm

Previous Measurement			Present Measurement			Total Up-to-Date		Remarks
Qty	Rate	Cost	Qty	Rate	Cost	Qty	Cost	
			1427.48	186.92	266824.56	1427.48	266824.56	
			8.31	80.56	669.45	8.31	669.45	
			135.18	5347.70	722902.09	135.18	722902.09	
			27.00	4438.22	119831.94	27.00	119831.94	
			2.25	5767.46	12976.79	2.25	12976.79	
			45.00	4743.00	213435.00	45.00	213435.00	
			2560.40	310.58	795209.03	2560.40	795209.03	
			856.20	407.04	348507.65	856.20	348507.65	
			33.32	59413.00	1979641.16	33.32	1979641.16	
			555.38	6231.74	3460983.76	555.38	3460983.76	
			1440.00	86.92	125164.80	1440.00	125164.80	

12	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., Complete as per specifications.	Rmt
13	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc., Complete as per specifications.	M
a	0.00 to 50.00 Mtr.	M
b	50.00 to 100.00 Mtr.	M
c	100.00 to 150.00 Mtr.	M
d	150.00 to 200.00 Mtr.	M
e	200.00 to 250.00 Mtr.	M
f	250.00 to 300.00 Mtr.	M
14	PVC Pipes 10kg/sqm 250mm outerdia Complete as per specifications.	Each
15	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) Complete as per specifications.	M
16	Providing and fixing 175mm dia MS casing collers Complete as per specifications.	Each
17	175 mm dia M.S. Casing cap Complete as per specifications.	Each
18	supply of 175mm M.S collars each Complete as per specifications.	Each
19	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000. HP 25 stage Complete as per specifications.	No's
20	Supplying and fixing ISI marked Galvanized nild steel tube (conteneously welded) electrical restistance welded (ERW) Hi freezuency inclucation whelded hot finished we with latest amendments, pipes threded at both aend the other end procte with HD colled as per specification in random lengths 4 to 7 confirming to IS 1239/ part 1990 with amendment 1-5 and with all its latest amendments if any: the pipe supplied ahould be with BIS mark Galvaized iron pipes : ISI 239 (part-1) 1990 50 mm dia "C" Class (Heavy Duty coller) Complete as per specifications.	Rmt
21	Supplying and fixing 50mm dia GI collar Heavy duty Complete as per specifications.	Rmt

			1.00	1938.46	1938.46	1.00	1938.46	
					0.00	0.00	0.00	
			50.00	315.00	15750.00	50.00	15750.00	
			50.00	412.00	20600.00	50.00	20600.00	
			50.00	458.35	22917.50	50.00	22917.50	
			50.00	484.10	24205.00	50.00	24205.00	
			50.00	560.32	28016.00	50.00	28016.00	
			50.00	600.49	30024.50	50.00	30024.50	
			15.00	2600.00	39000.00	15.00	39000.00	
			80.00	1364.75	109180.00	80.00	109180.00	
			18.00	1133.00	20394.00	18.00	20394.00	
			25.00	150.00	3750.00	25.00	3750.00	
			50.00	150.00	7500.00	50.00	7500.00	
			1.00	70685.00	70685.00	1.00	70685.00	
			300.00	210.00	63000.00	300.00	63000.00	
			46.00	210.00	9660.00	46.00	9660.00	

85,03,956
86,29,046

22	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured wit electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130 1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volt as per 1x3x4 Sqmm of 56 strands 0.3mm dia group-A Complete as per specifications.
23	Supply and fixing 50mm doa GI union with ISI mark Complete as per specifications.
24	Supply and fixing 50mm doa GI Nipple with ISI mark Complete as per specifications.
25	KSRB-13-7.2-1 : Providing and fixing in position 50mm nominal bore gun metal non-return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads Complete as per specifications.
26	Supply and fixing 50mm doa GI Elbow with ISI mark Complete as per specifications.
27	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-Cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr Cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter Complete as per specifications.
28	Erection of pump including aligning and balancing with all necessary erection material and labour including supply and fitting of two pairs of supporting clamps with necessary bolts and washers. one borewell cap cable clips and watertight gland cable protecters. bolts and nuts valves and gauges etc.. involved in the job (Approved rates) Complete as per specifications.
29	Erection ofsupply and fixing of control panel board. In Door type unit IS 5124 10HP to 20HP Complete as per specifications.
30	Supplying of TPST with rewireable procelain channels in SM incloser 32 amps Complete as per specifications.
31	Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides made out of non more than 2 pieces and fixing the same to wall using taperd inverted wooden plugs, srews etc., Complete as per specifications.
32	Supplying and fixing LED type panle board indicating lamp with required colour suitable for 220A A.C.50 Hz 12/24v.D.C.S (Electrical SR) Complete as per specifications.
33	Supplying and fixing and wiring heavy duty low voltage capacitos conforming to IS 2834.3 Phase 400/400 volts grade, For Power factor imorovement of rotating machinary cost per KVAR (b) group B up to 5KVAR Complete as per specifications.
34	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and wiring complete as required 5 to 32 Amps Complete as per specifications.
35	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 12mm dia Complete as per specifications.
36	Supplying and fixing of A class (medium duty) GI Pipe of wall thickness not less than 3.25 mm on pole / wall . Drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia Complete as per specifications.
37	Supplying LTUG cables having aluminium conductor PVC insulated sheathed galvanised steel wire /steel type armound cables with PVC outer sheating 1.1 KV class B PVC Cable 4 core 16Sqmm Complete as per specifications.
38	Digging of trench of 60x50 wide refiiling the trench to the required ground level and consolidated wtc. Complete in ordinary soil Complete as per specifications.

			660.00	159.50	105270.00	660.00	105270.00	
			1.00	223.70	223.70	1.00	223.70	
			2.00	104.30	208.60	2.00	208.60	
			1.00	1145.00	1145.00	1.00	1145.00	
			2.00	122.00	244.00	2.00	244.00	
			1	22000.00	22000.00	0.00	22000.00	
			1	22000.00	22000.00	0.00	22000.00	
			1	8300.00	8300.00	0.00	8300.00	
			1.00	1868.00	1868.00	1.00	1868.00	
			1.00	302.00	302.00	1.00	302.00	
			1.00	430.00	430.00	1.00	430.00	
			1.00	138.00	138.00	1.00	138.00	
			1.00	418.00	418.00	1.00	418.00	
			1.00	2727.00	2727.00	1.00	2727.00	
			1.00	345.00	345.00	1.00	345.00	
			15.00	140.40	2106.00	15.00	2106.00	
			10.00	106.00	1060.00	10.00	1060.00	

39	Labour charges for laying 1.1KV class UG cable when supplying departmentally /Agency in excisting trench GI pipe / stone ware pipe /on wall /on pole as reqired (a) 6Sqmm to 16Sqmm Complete as per specifications.	Rmt
40	Supplying and fixing LT Cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitimen / insulating compound complete with terminals, clamps, Bolts, nuts & washers etc 4 core 16 Sqmm Complete as per specifications.	No's
41	Supplying of porcelain fuse channel with cutout 32 ampers Complete as per specifications.	No's
42	Bescom Charges Complete as per specifications.	Each
43	Earthwork excavation for pipe line trenches including depositing on bank upto a lead of 50 mtrs including shorting and strutting, danger lighting and using sight rails and bonding roads at every 100 mtrs wherever necessary as directeding the following starta manual means Complete as per specifications.	Cum
a	A) Ordinary soil 50%	Cum
b	B) Hard Soil 50%	Cum
44	Providing and installaing at site od work PVC Pipes including cost of pipes and specials and labour including lowering into trenches laying true to line, level and prefect linking at hoints, leak proof including jointing of approved type with all laour encasing the pipe alround to a depthnot less than 15cms with grave of selected earth available from the excavation etc., Complete as per specifications.	Mtr
a	A) 63 mm dia 6kg/CM2	Mtr
b	B) 75 mm dia 6kg/CM2	Mtr
45	Gate valve 50mm nominal type Complete as per specifications.	No's
a	A) 50 MM Dia	No's
46	Gate valve 65mm nominal type Complete as per specifications.	No's
a	A) 65MM Dia	No's
47	Gunmetal non retturnnvalve 50 mm nominal bore vartical type Complete as per specifications.	No's
48	Refilling the basement and pipe lines, trenches with selected avilable earth form trench excabation including watering, Consolidation in layers of 15 cms thick including disposing of the surplus earth with a lead of 200 mtr Complete as per specifications.	Cum

CERTIFICATE

1 Certified that Contractor has done the Work Satisfactorly.

2 Certified that Contractor has removed all debries from work spot.

3 There is no due from contractor side.

Ravi.N.C.
AE Project.

Asst. Executive Engineer
Project Supervision
Dasarahalli Zone
Bengaluru Mahanagara Palike

			10.00	10.80	108.00	10.00	108.00	
			2.00	280.00	560.00	2.00	560.00	
			2.00	180.00	360.00	2.00	360.00	
			1.00	15000.00	15000.00	1.00	15000.00	
			216		29160	216	29160	
			641.00	135.00	86535.00	641.00	86535.00	
			641.00	135.00	86535.00	641.00	86535.00	
			216	188	40608	216	40608	
			200.00	104.00	20800.00	200.00	20800.00	
			400.00	123.00	49200.00	400.00	49200.00	
				122	18600		18600	
					0.00	0.00	0.00	
			8.00	1600.00	12800.00	8.00	12800.00	
					0.00	0.00	0.00	
			8.00	2050.00	16400.00	8.00	16400.00	
			5.00	1202.00	6010.00	5.00	6010.00	
			1282.00	61.00	78202.00	1282.00	78202.00	
				TOTAL Rs.	9054061.99		9054061.99	
				KRIDL Charges (8%)	724324.96		724324.96	
				GRAND TOTAL Rs.	9778386.95		9778386.95	

~~8926548~~ 8911548
~~714124~~ 712924
~~9640672~~ 9624472

			10.00	10.80	108.00	10.00	108.00	
			2.00	280.00	560.00	2.00	560.00	
			2.00	180.00	360.00	2.00	360.00	
			1.00	15000.00	15000.00	1.00	15000.00	
			216		29160	216	29160	
			641.00	135.00	86535.00	641.00	86535.00	
			641.00	135.00	86535.00	641.00	86535.00	
			216	188	40608	216	40608	
			200.00	104.00	20800.00	200.00	20800.00	
			400.00	123.00	49200.00	400.00	49200.00	
				122	18600		18600	
					0.00	0.00	0.00	
			8.00	1600.00	12800.00	8.00	12800.00	
					0.00	0.00	0.00	
			8.00	2050.00	16400.00	8.00	16400.00	
			5.00	1202.00	6010.00	5.00	6010.00	
			1282.00	61.00	78202.00	1282.00	78202.00	
				TOTAL Rs.	9054061.99		9054061.99	
				KRIDL Charges (8%)	724324.96		724324.96	
				GRAND TOTAL Rs.	9778386.95		9778386.95	

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~~714124~~ 712924
~~9640672~~ 9624472